

SEQUENCE LISTING

<110> EPIDAUROS Biotechnologie AG

<120> Polymorphisms in the human gene for the multidrug resistance-associated protein 1 (MRP-1) and their use in diagnostic and therapeutic applications

<130> E 3068 PCT

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<151> 2001-01-26

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Ala Gln Ser Phe Met Asp

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5

21

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Ala Gln Ser Phe Met Asp

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Asp Ser Leu Gln Glu Asn Ile

1

5

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Asp Ser Leu Gln Glu Asn Ile

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Leu Met Ser Cys Phe Phe Lys

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sequence

<400> 341

ccatgtgtcc acgctggctt c

21

<210> 342

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<400> 342

gaagccagcg tggacacatg g

21

<210> 343

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<220>

<223> r = g or a

<400> 343

ccatgtgtcc rcgctggctt c

21

<210> 344

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<220>

<223> y = c or t

<400> 344

gaagccagcg yggacacatg g

21

<210> 345

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<400> 345

tgaagccccc aaccttgtgg g

21

<210> 346

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<400> 346

cccacaaggt tgggggcttc a

21

<210> 347

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<220>

<223> r = g or a

<400> 347

tgaagccccc raccttgtgg g

21

<210> 348

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<220>

<223> y = c or t

<400> 348
cccacaaggt ygggggcttc a 21

<210> 349
<211> 21
<212> DNA
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<220>
<223> Description of Artificial Sequence: artificial
sequence

<400> 349
tgggtggcac ggtgctggtg a 21

<210> 350
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
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sequence

<400> 350
tcaccagcac cgtgccaccc a 21

<210> 351
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<220>
<223> r = g or a

<400> 351
tgggtggcac rgtgctggtg a 21

<210> 352
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<220>
<223> y = c or t

<400> 352
tcaccagcac ygtgccaccc a 21

<210> 353
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<400> 353
gctgggtggc gcagtgctgg t 21

<210> 354
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<400> 354
accaagcact ggcgcaccca gc 22

<210> 355
<211> 21
<212> DNA
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<220>
<223> Description of Artificial Sequence: artificial
sequence

<220>
<223> r = g or a

<400> 355
gctgggtggc rcagtgctgg t 21

<210> 356
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<220>
<223> y = c or t

<400> 356

accaagcact gygccaccca gc

22

<210> 357

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 357

ggcccgatca cccgccgccc

20

<210> 358

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 358

cgccggcggg tgatcgggcc

20

<210> 359

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = ccc gcc gcc cgg tg or deleted

<400> 359

ggcccgatca nccgccgcc g

21

<210> 360

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

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<223> n = cac cgg gcg gcg gg or deleted

<400> 360

cgccggcggg ntgatcgggc c

21

<210> 361
 <211> 56
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
 sequence

<400> 361
 tccctgcgcc gccgcccgcg ccgcccgcgc cgccgcccgc gccgccagcg ctagcg 56

<210> 362
 <211> 56
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
 sequence

<400> 362
 -cgctagcgct ggcggcggcg gcggcggcgg cggcggcggc ggcggcggcg caggga 56

<210> 363
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
 sequence

<220>

<223> n = gcc or deleted

<400> 363
 TCCCTGCGCC GCCGCCGCC CCGCCGCCGC CGCCGCCGCC GCCGCCnAGC GCTAGCG 57

<210> 364
 <211> 57
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
 sequence

<220>

<223> n = ggc or deleted

<400> 364
 CGCTAGCGCT nGGCGGCGGC GGCGGCGGCG GCGGCGGCGG CGGCGGCGGC GCAGGGA 57

<210> 365
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: artificial
 sequence

<400> 365
 tccctgcgcc gccgcccgcg ccgcccgcgc cgccgcccgc gccagcgcta gcg 53

<210> 366
 <211> 53
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: artificial
 sequence

<400> 366
 cgctagcgct ggcgggcgcg gcggcgggcg cgcgggcggc ggcgggcgag gga 53

<210> 367
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: artificial
 sequence

<220>
 <223> n = gcc gcc or deleted

<400> 367
 TCCCTGCGCC GCCGCCGCCG CCGCCGCCGC CGCCGCCGCC GCCnAGCGCT AGCG 54

<210> 368
 <211> 54
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: artificial
 sequence

<220>
 <223> n = ggc ggc or deleted

<400> 368
 CGCTAGCGCT nGGCGGCGGC GGCGGCGGCG GCGGCGGCGG CGGCGGCGCA GGGA 54

<210> 369
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: artificial
 sequence

<400> 369
 tccctgcgcc gccgccgccg ccgccgccgc cgccgccgcc agcgctagcg 50

<210> 370
 <211> 50
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: artificial
 sequence

<400> 370
 cgctagcgct ggcgggcgcg gcggcgggcg cgcgggcggc ggcgcagggg 50

<210> 371
 <211> 52
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: artificial
 sequence

<220>
 <223> n = gcc gcc gcc or deleted

<400> 371
 TCCCTGCGCC GCCGCCGCCG CCGCCGCCGC CGCCGCCGCC nAGCGCTAG CG 52

<210> 372
 <211> 52
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: artificial
 sequence

<220>
 <223> n = ggc ggc ggc or deleted

<400> 372
 CGCTAGCGCT nGGCGGCGGC GGCGGCGGCG GCGGCGGCGG CGGCGCAGG GA 52

<210> 373

<211> 47
 <212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 373

tccctgcgcc gccgcccgcg ccgcccgcgc cgccgccagc gctagcg 47

<210> 374

<211> 47

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 374

cgctagcgct ggcggcggcg gcggcgggcg cgcgggcggc gcaggga 47

<210> 375

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = gcc gcc gcc gcc or deleted

<400> 375

TCCCTGCGCC GCCGCCGCCG CCGCCGCCGC CGCCGCCnAG CGCTAGCG 48

<210> 376

<211> 48

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = ggc ggc ggc ggc or deleted

<400> 376

CGCTAGCGCT nGGCGGCGGC GGCGGCGGCG GCGGCGGCGG CGCAGGGA 48

<210> 377

<211> 38

<212> DNA
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 377

tccctgcgcc gccgccgccg ccgccgccag cgctagcg

38

<210> 378

<211> 38

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 378

cgctagcgct ggcggcggcg gcggcggcg cgaggga

38

<210> 379

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = gcc gcc gcc gcc gcc gcc gcc or deleted

<400> 379

TCCCTGCGCC GCCGCCGCCG CCGCCGCCnA GCGCTAGCG

39

<210> 380

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = ggc ggc ggc ggc ggc ggc ggc or deleted

<400> 380

CGCTAGCGCT nGGCGGCGGC GGC GGCGGCG GCGCAGGGA

39

<210> 381

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 381

tcaagcagag agagagtgtt

20

<210> 382

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 382

aacactctct ctctgcttga

20

<210> 383

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = AA or deleted

<400> 383

tcaagcagag nagagagtgt t

21

<210> 384

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = tt or deleted

<400> 384

aacactctct nctctgcttg a

21

<210> 385

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 385

ctggggcctt tgtgtcattc a

21

<210> 386

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 386

tgaatgacac aaaggcccca g

21

<210> 387

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> y = c or t

<400> 387

ctggggcctt ygtgtcattc a

21

<210> 388

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> r = g or a

<400> 388

tgaatgacac raaggcccca g

21

<210> 389

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 389

acacaaggag atgaagccgt t

21

<210> 390

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 390

aacggcttca tctccttggtg t

21

<210> 391

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> r = g or a

<400> 391

acacaaggag rtgaagccgt t

21

<210> 392

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> y = c or t

<400> 392

aacggcttca yctccttggtg t

21

<210> 393

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 393

caggcccccc cagacctcag g

21

<210> 394

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<400> 394

cctgaggtct gggggggcct g

21

<210> 395

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = c or deleted

<400> 395

caggcccccc nagacctcag g

21

<210> 396

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial sequence

<220>

<223> n = g or deleted

<400> 396

cctgaggtct nggggggcct g

21

<210> 397

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial

sequence

<400> 397
tacagttttg attttgttga g 21

<210> 398
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<400> 398
ctcaacaaaa tcaaaactgt a 21

<210> 399
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<220>
<223> r = g or a

<400> 399
tacagttttg rttttgttga g 21

<210> 400
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<220>
<223> y = c or t

<400> 400
ctcaacaaaa ycaaaactgt a 21

<210> 401
<211> 11
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: artificial
sequence

<400> 401

Thr Pro Leu Asn Lys Ile Lys Thr Ala Leu Gly
1 5 10

<210> 402

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<220>

<223> Xaa = T or I

<400> 402

Thr Pro Leu Asn Lys Xaa Lys Thr Ala Leu Gly
1 5 10

<210> 403

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<400> 403

Cys Asn His Val Ser Thr Leu Ala Ser Asn Tyr
1 5 10

<210> 404

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<220>

<223> Xaa = A or T

<400> 404

Cys Asn His Val Ser Xaa Leu Ala Ser Asn Tyr
1 5 10

<210> 405

<211> 15

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: artificial
sequence

<400> 405

cccgccgccc gggtg

15

15